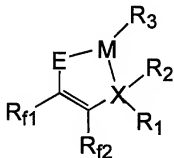


AMENDMENTS TO THE CLAIMS

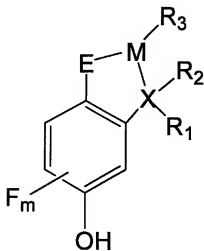
This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

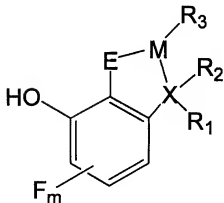
1. (currently amended): An olefin polymerization catalyst represented by general formula (1), (2), or (3):



(1)



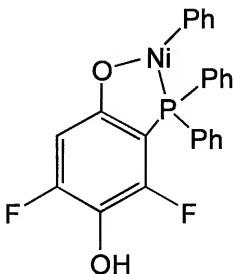
(2)



(3)

(wherein M is nickel, palladium, or platinum; E is oxygen or sulfur; X is phosphorus, arsenic, or antimony; R_1 , R_2 , and R_3 are each independently hydrogen or a hydrocarbon group having 1 to 20 carbon atoms; R_1 and R_2 are each independently a fluorine atom or a fluorohydrocarbon group having 1 to 20 carbon atoms; F is fluorine; and m is 1 to 3).

2. (original): The olefin polymerization catalyst according to claim 1, wherein M is nickel.
3. (currently amended): The olefin polymerization catalyst according to claim 1, wherein E is oxygen, and X is phosphorus.
4. (currently amended): The olefin polymerization catalyst according to claim 1, wherein R_{f1} and R_{f2} are each a fluorohydrocarbon group having 1 to 20 carbon atoms.
5. (original): The olefin polymerization catalyst according to claim 4, wherein R_{f1} is a trifluoromethyl group, and R_{f2} is a pentafluorophenyl group.
6. (currently amended): The olefin polymerization catalyst according to claim 1, wherein R_1 , R_2 , and R_3 are each a phenyl group.
7. (currently amended): The olefin polymerization catalyst according to claim 6, represented by general formula (4):



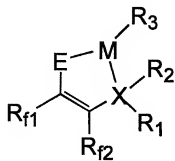
(4)

(wherein Ph represents a phenyl group).

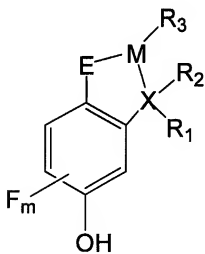
8 and 9. (canceled).

10. (currently amended): A method for producing the olefin polymerization catalyst according to claim 1.

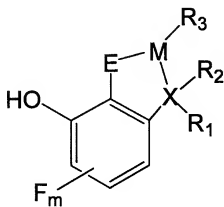
11. (currently amended): A method for producing anthe olefin polymer ~~according to claim 8~~ by polymerizing an olefin in the presence of an olefin polymerization catalyst represented by general formula (1), (2), or (3):



(1)



(2)



(3)

wherein M is nickel, palladium, or platinum; E is oxygen or sulfur; X is phosphorus, arsenic, or antimony; R₁, R₂, and R₃ are each independently hydrogen or a hydrocarbon group having 1 to 20 carbon atoms; R₁ and R₂ are each independently a fluorine atom or a fluorohydrocarbon group having 1 to 20 carbon atoms; F is fluorine; and m is 1 to 3.